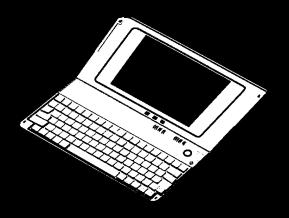


Briefing Agenda

- Objective of Program
- Background Information
- Methodology
- Products
- -Plans (STO)
- Summary/Plans





Objective of Program



-To conceptualize and quantify the potential of a lethality system for the individual warrior of the Army After Next



Deckground Information

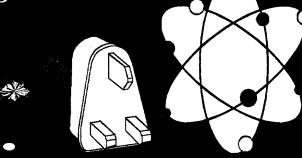
- The Future Conclave OICW & OCSW Conference (July 1997)
- The Future Conclave "Blue Sky" -2020
 Conference (September 1997)





- The luture Conclave "Blue Sky" -2020
- · Nethodology: Four Subgroups
 - Capabilities
 - Human Factors
 - Lethality Mechanisms/Target Coupling
 - Energy Considerations

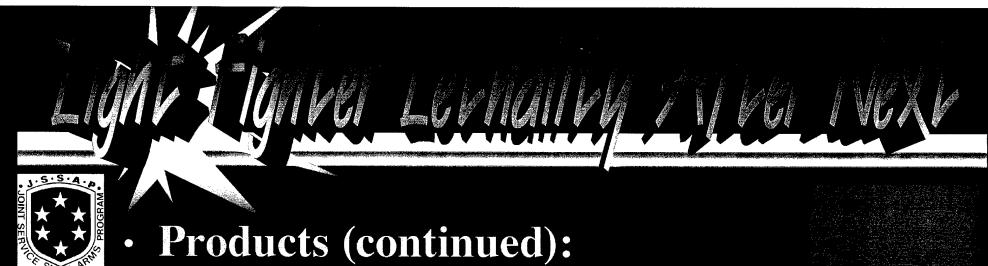






Products (Results of Subgroup Discussions):

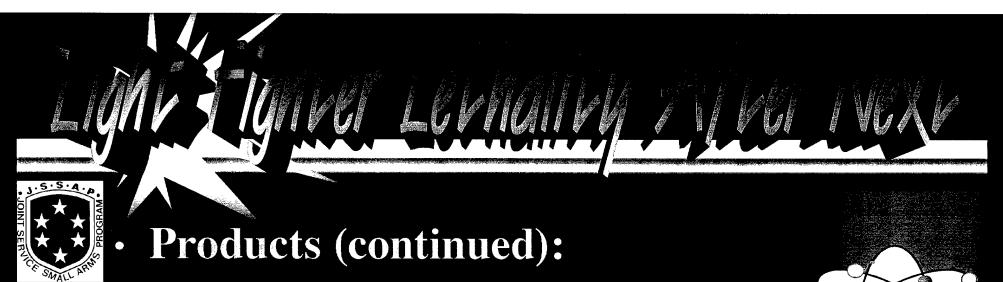
- · Capabilities Subgroup:
 - Greater accountability of the soldier
 - Improved sensing system, and environmental factors
 - A multi-faceted engagement process
 - A new paradigm beyond "shoot, move and communicate"



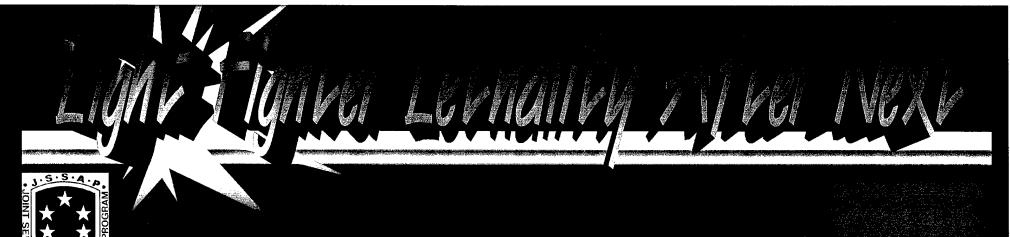
- Human Factors Subgroup:
 - Human-weapon fusion as an interactive melding
 - Individualizing weaponry
 - Status monitoring, indirect sighting; jitter and security control
 - Embedded training



- Products (continued):
- Lethality Mechanisms/Target Coupling Subgroup:
 - Small caliber, high velocity, bussed warheads for long range engagements (with low recoil)
 - A greater lethality radius/footprint
 - Guided projectiles

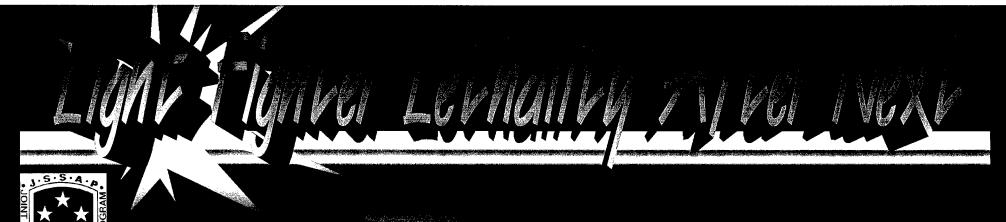


- Energy Considerations Subgroup:
 - A power system architecture c/o:
 - Prime energy store
 - Power distribution and conversion hardware
 - Intermediate energy storage elements
 - Intelligent power controller
 - Energy recovery elements
 - Self-protection elements



• STO Number: ARD-05: Light Fighter Lethality After Next

- A complete lethality system
- An organic lethality component (=/<5lbs)
- A seeker projectile
- An open breech launch mechanism



- Summary
 - Goal
 - Ultra-light
 - Probability of incapacitation (=1.)
 - · Organic lethality of dismounted soldier
 - Focused on AAN time frame
 - component demos FY 02-05
 - System demos FY 08-12
 - Fielding FY20-25



- Future Activities:
 - Define a Science & Technology Objective (STO) Program
 - Protect available funding
 - Define and demonstrate the Lethality
 Component of lightweight soldier for AAN
 - A more agile/lightweight soldier
 - <5 lbs.. Lethality concept



- Future Activities (continued)
- Demonstrate System Components
- Identify/fill data gaps
- Conduct Technology Searches
 - Individual soldier sensors
 - seeker projectiles
 - lightweight launch mechanisms



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